

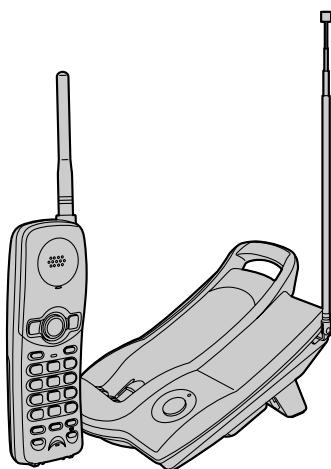
Panasonic

Cordless Phone Operating Instructions

Model No. KX-TC2100AL
KX-TC2100NZ

**PLEASE READ
BEFORE USE AND
SAVE.**

**Charge the battery for
about 9 hours before
initial use.**



Contents by

- 1 Getting Started
- 2 Making/Answering Calls
- 3 Speed Dialler
- 4 One-Touch Dialler
- 5 Special Features
- 6 Things You Should Know

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For your future reference

Serial No. _____ Date of purchase _____
(found on the bottom of the unit)

Name and address of dealer _____

Attach or keep original receipt to assist with any repair under warranty.

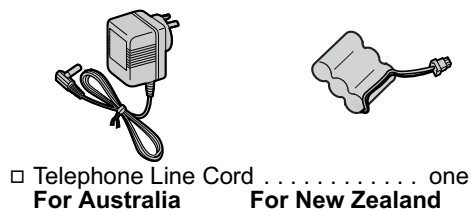
Manufactured by Panasonic Communications (Malaysia) Sdn. Bhd.
Senai Malaysia

PQQX14812ZA F0605HAO

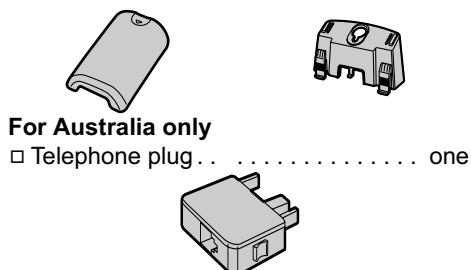
1 Getting Started

1-A Accessories

- AC Adaptor . one □ Battery one

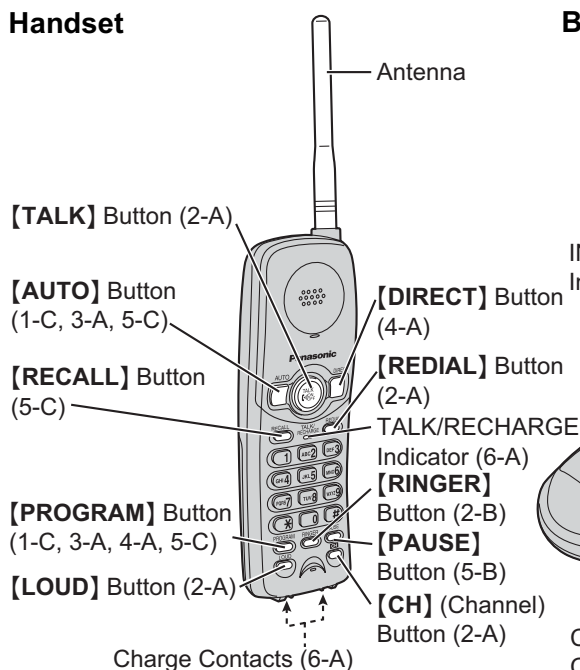


- Handset Cover . . . one □ Wall/Desk Stand. one

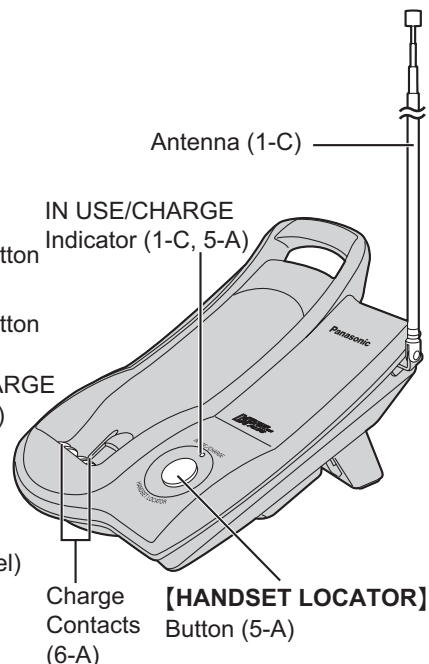


1-B Location of Controls

Handset

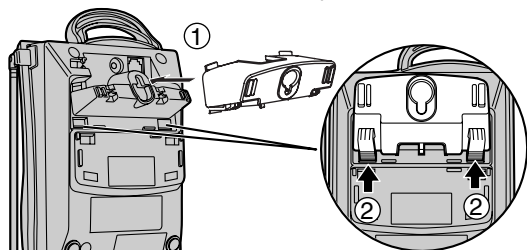


Base unit

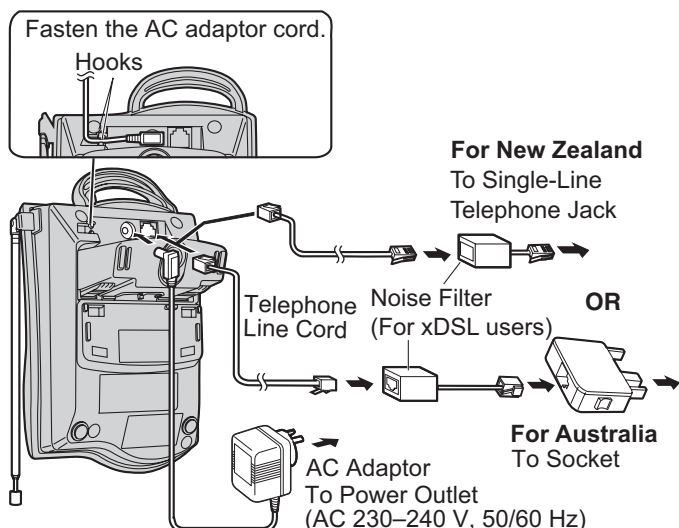


1-C Settings

- 1** Install the Wall/Desk stand before use.
 Insert the hooks in the direction (①) then push the tabs as shown (②).
 • The word "UP DESK" should face upward.

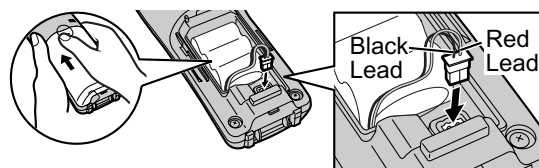


- 2** Connect as shown.



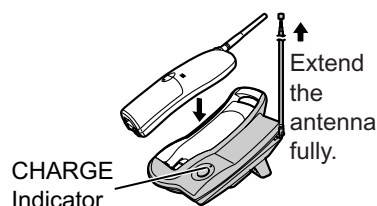
- USE ONLY WITH Panasonic AC ADAPTOR PQLV16AL.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The unit will not work during a power failure. If you want to connect to a standard telephone on the same line;
 —KX-TC2100AL: Use a telephone double adaptor.
 —KX-TC2100NZ: Use a T-adaptor.
- KX-TC2100AL and KX-TC2100NZ are not designed to be used with rotary (pulse dialling) services.

- 3** Install the battery in the handset, and close the handset cover, locking it into place.



- 4** Charge the battery for about 9 hours.

- See section 6-A for more details.
- The CHARGE indicator lights.



- **If you subscribe to an xDSL service**
- Please attach a noise filter (contact your xDSL provider) to the telephone line between the base unit and the telephone line jack or socket in the event that noise is heard during conversations.

To select the dialling mode TONE

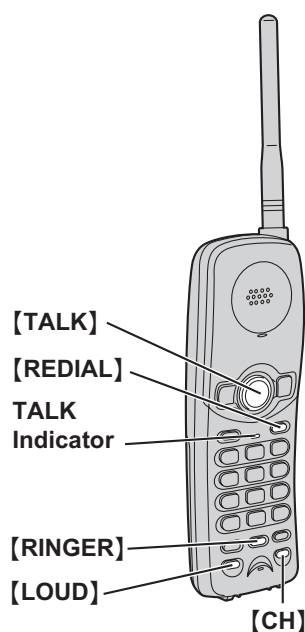
The TALK indicator light must be off before programming.

Press **[PROGRAM]** ➡ **[AUTO]** ➡ **[*]** twice (TONE) ➡ **[PROGRAM]**.

- A beep sounds.
- To cancel during programming, press **[PROGRAM]**.
- If 3 beeps sound during programming, a wrong key was pressed. Start again from the beginning.

2 Making/Answering Call

2-A Making Calls



1 Press **[TALK]**.

- The TALK indicator lights.
- If an alarm tone sounds, see section 6-E.

2 Dial a phone number.

3 To hang up, press **[TALK]** or place the handset on the base unit.

- The indicator light goes out.
- For best operating performance, see section 6-C.
- When you make additional dialling after speed dialling such as AUTO (3-B), DIRECT (4-B) or REDIAL, please make sure to do it after finishing the speed dialling. Otherwise, the unit may not dial properly.

To redial the last number dialled

Press **[TALK]** ➡ **[REDIAL]**.

To select the handset receiver volume

Press **[LOUD]** while talking.

- Each time you press the button, the volume level will change to LOW (preset) or HIGH.

If noise interferes with the conversation

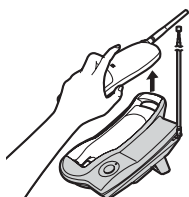
Press **[CH]** to select a clearer channel or move closer to the base unit.

2-B Answering Calls

If the handset is off the base unit, press **[TALK]**.

- You can also answer a call by pressing any dialling button **[0]** to **[9]**, **[*]** or **[#]** (—Any Key Talk).

OR



If on the base unit, just lift up.

Selecting the ringer volume

The TALK indicator light must be off.

To select HIGH (preset) or LOW, press **[RINGER]**.

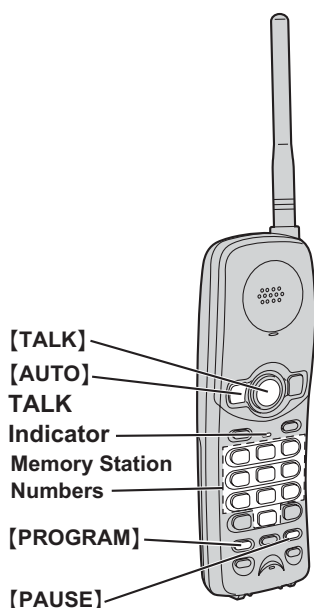
Each time you press the button, the ringer volume will change and the selected volume will ring.

- To turn the ringer OFF, press and hold **[RINGER]** until a beep sounds.
- To turn the ringer ON, press **[RINGER]**.

For New Zealand Users Only: Additional Security Feature

In the event that a call cannot be made from the handset following a power interruption, disconnect the base unit from the line momentarily then reconnect it. Turn the handset off, and replace it on the base unit. This will re-establish the security system and the handset can be used as before.

3 Speed Dialler



3-A Storing Phone Numbers in Memory

You can store up to 10 phone numbers.

The dialling buttons ([0] to [9]) function as memory stations.

The TALK indicator light must be off before programming.

- 1 Press **[PROGRAM]**.
 - The TALK indicator flashes.
 - 2 Enter a phone number up to 16 digits.
 - 3 Press **[AUTO]**.
 - 4 Press a memory station number ([0] to [9]).
 - A beep sounds.
 - To store other numbers, repeat steps 1 through 4.
- If a pause is required for dialling, press **[PAUSE]** where needed.
Pressing **[PAUSE]** counts as one digit (5-B).

If you misdial

Press **[PROGRAM]** to end storing. ➡
➡ Start again from step 1.

To erase a stored number

Press **[PROGRAM]** ➡ **[AUTO]** ➡
➡ the memory station number ([0] to [9])
for the phone number to be erased.

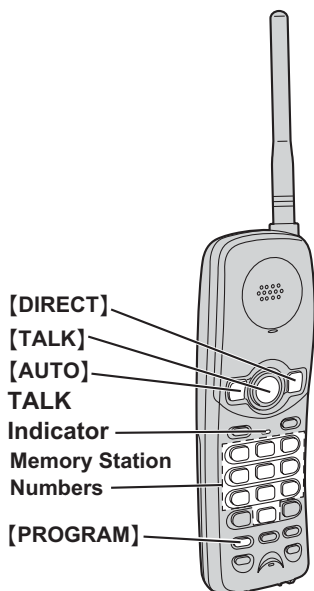
- A beep sounds.

3-B Dialling a Stored Number

Press **[TALK]** ➡ **[AUTO]** ➡ the memory station number ([0] to [9]).

- The stored number is dialled.

4 One-Touch Dialler



4-A Storing a Phone Number in the DIRECT Button

A phone number stored in the **[DIRECT]** button can be dialled with a one-touch operation.

The TALK indicator light must be off before programming.

- 1 Press **[PROGRAM]**.
 - The TALK indicator flashes.
 - 2 Press **[DIRECT]**.
 - 3 Enter a phone number up to 48 digits.
 - 4 Press **[DIRECT]**.
 - A beep sounds.
- If a pause is required for dialling, press **[PAUSE]** where needed.
Pressing **[PAUSE]** counts as one digit (5-B).

If you misdial

Press **[PROGRAM]** to end storing. ➡
➡ Start again from step 1.

To erase a stored number

Press **[PROGRAM]** ➡ **[DIRECT]** ➡
➡ **[DIRECT]**.

- A beep sounds.

4-B Dialling a Stored Number in the DIRECT Button

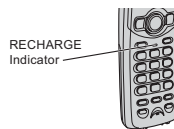
Press **[TALK]** ➡ **[DIRECT]**.

6 Things You Should Know

6-A Battery

Recharge

When the RECHARGE indicator flashes or the unit beeps intermittently, place the handset on the base unit for about 9 hours to recharge the battery.



Battery information

After your Panasonic battery is fully charged:

Operation	Operating time
While in use (TALK)	Up to about 7 hours
While not in use (Standby)	Up to about 120 hours

- The battery operating time may be shortened depending on usage conditions and ambient temperature.
- As preventative maintenance, clean the handset and the base unit charge contacts with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or humidity. Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until the RECHARGE indicator flashes. This will maximise the battery life.
- The battery cannot be overcharged.

Battery replacement:

If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, the RECHARGE indicator flashes, the battery needs to be replaced. Replace the battery with a new Panasonic P-P301 (KX-A36A) battery. See section 1-C, step 3. When replacing the battery, programmed information may be erased. Reprogram if necessary.

To replace the battery:

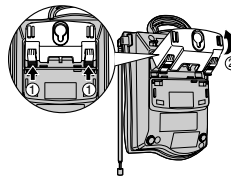
Press the notch on the cover firmly and slide it as indicated by the arrow. Replace the old battery with new one (1-C). Close the cover and charge for about 9 hours.



6-B Wall Mounting

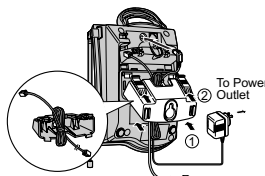
This unit can be mounted on a wall.

- Press the tabs in the direction of the arrows (①), then remove the wall/desk stand (②).



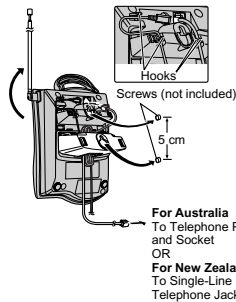
- Connect the AC adaptor. Tuck the telephone line cord inside the wall/desk stand, then push it in the direction of the arrows (① and ②).

- The word "UP WALL" should face upward.

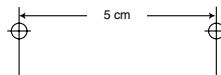


- Connect the telephone line cord. Install screws using the wall template below. Mount the unit, then slide down.

- Extend the antenna fully.
- Fasten the cords to prevent it from being disconnected.



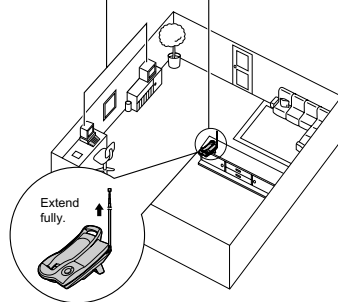
Wall Template



6-C Base Unit Location

Calls are transmitted between the base unit and the handset using wireless radio waves. For maximum distance and noise-free operation, we recommend the following:

- Away from electrical appliances such as a TV, radio or personal computer.
- In a HIGH and CENTRAL location with no obstructions such as walls.



6-D Specifications

Base unit

Power Supply:	AC Adaptor (230 – 240 V AC, 50/60 Hz)
Power Consumption:	Standby: Approx. 5 W Maximum: Approx. 7 W
Frequency:	30 MHz – 39 MHz
Dimensions (H x W x D):	Approx. 90 mm x 125 mm x 210 mm
Mass (Weight):	Approx. 260 g

Handset

Power Supply:	Ni-Cd battery (3.6 V, 300 mAh)
Frequency:	30 MHz – 39 MHz
Dimensions (H x W x D):	Approx. 260 mm x 55 mm x 45 mm
Mass (Weight):	Approx. 170 g
Security Codes:	1,000,000
Operating Environment:	5 °C – 40 °C

Specifications are subject to change without notice.

For Australia
To Telephone Plug
and Socket
OR
For New Zealand
To Single-Line
Telephone Jack

Things you should Know

6-E Troubleshooting	
Problem	Cause and Remedy
The unit does not work.	<ul style="list-style-type: none"> Check the settings (1-C). Charge the battery fully (6-A). Clean the charge contacts and charge again (6-A). Install the battery properly (1-C, 6-A). Place the handset on the base unit and unplug the AC adaptor to reset. Plug in, and try again. Re-insert the handset battery and place the handset on the base unit. Try again. KX-TC2100AL and KX-TC2100NZ are not designed to be used with rotary (pulse dialling) services.
An alarm tone sounds when you press [TALK].	<ul style="list-style-type: none"> You are too far from the base unit. Move closer and try again. Place the handset on the base unit and try again. Plug in the AC adaptor. Extend the base unit antenna fully.
Static, sound cuts in/out, fades. Interference from other electrical units.	<ul style="list-style-type: none"> Place the handset and the base unit away from other electrical appliances (6-C). Move closer to the base unit. Extend the base unit antenna fully. Press [CH] to select a clearer channel.
The unit does not ring.	<ul style="list-style-type: none"> The ringer volume is set to OFF. Press [RINGER] when the TALK indicator light is off (2-B).
While storing a phone number, the unit starts to ring.	<ul style="list-style-type: none"> To answer the call, press [TALK]. The program will be cancelled. Store the number again.
You cannot store a phone number in memory.	<ul style="list-style-type: none"> You cannot store a number while the unit is in the talk mode. Do not pause for over 60 seconds while storing.
You cannot redial by pressing [REDIAL].	<ul style="list-style-type: none"> If the last number dialled was more than 48 digits long, the number will not be redialled.
[HANDSET LOCATOR] does not function.	<ul style="list-style-type: none"> The handset is too far from the base unit or is engaged in an outside call.
The RECHARGE indicator flashes or the unit beeps intermittently.	<ul style="list-style-type: none"> Charge the battery fully (6-A).
You charged the battery fully, but the RECHARGE indicator flashes.	<ul style="list-style-type: none"> Clean the charge contacts and charge again (6-A). Install a new battery (6-A).
The IN USE/CHARGE indicator light does not go out while charging.	<ul style="list-style-type: none"> This is normal.

6-F Safety Instructions

Take special care to follow the safety suggestions listed below.

Safety

- 1) The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 2) When left unused for a long period of time, the base unit should be unplugged from the household AC outlet.

Installations

Environment

- 1) Do not use this unit near water—for example, near a bathtub, washbowl, sink, etc. Damp basements should also be avoided.
- 2) The unit should be kept away from heat sources such as radiators, kitchen range, etc. It also should not be placed in rooms where the temperature is less than 5°C or greater than 40°C.
- 3) The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

Placement

- 1) Do not place heavy objects on top of this unit.
- 2) Care should be taken so that objects do not fall onto, and liquids are not spilled into, the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration or shock.
- 3) Place the unit on a flat surface.

For best performance

- 1) If noise prevents the conversation from being understood at the handset, approach the base unit to lessen the noise.
- 2) The handset should be used at the HIGH volume setting when the reception tone is difficult to hear.
- 3) The handset should be fully recharged on the base unit when the RECHARGE indicator flashes.
- 4) The handset antenna should not be touched during use because of its high sensitivity.
- 5) The maximum calling distance may be shortened when the unit is used in the following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

If there is any trouble, disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, do not reconnect the unit to the telephone line until the trouble has been repaired. If the known working phone does not operate properly, consult your telephone company.

Under power failure conditions, this telephone may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use. This equipment will be inoperable when mains power fails.

When a failure occurs which results in the internal parts becoming accessible, disconnect the power supply cord immediately and return this unit to unauthorised service centre. To minimise the possibility of lightning damage, when you know that a thunderstorm is coming, we recommend that you:

- Unplug the telephone line cord from the phone jack.
 - Unplug the power supply cord from the AC power outlet.
- The earcap on the handset is magnetised and may retain metallic objects. This equipment has been tested and found to comply with AS/NZS 3548: 1995 limits for electromagnetic interference.

Any modifications to any part of the system or to any peripherals may void the EMC compliance of the system or the peripherals.

For Australia Users Only

No "000" or other calls can be made from this device during a mains power failure.

For New Zealand Users Only

The grant of a Telepermit for any item of terminal equipment only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

WARNING NOTICE:

- Disconnect the telecom connection before disconnecting the power connection prior to relocating the equipment and reconnect the power first.
- No "111" or other calls can be made from this device during a mains power failure. This equipment shall not be set to make automatic calls to the Telecom "111" Emergency Service.
 - We recommend that a standard phone which can be used in the case of a power failure be connected to the telephone line at all times.
- Not all telephone will respond to incoming ringing when connected to the extension socket.
- This equipment may not provide for the effective hand-over of a call to another device connected to the same line.

For Australia Customers

Customer Support Centre Tel No: 136200 or
website www.panasonic.com.au
Sales Department: Panasonic Australia Pty. Limited
Auslink Corporate Park, 1 Garigal Road,
Belrose NSW2085, Australia

For New Zealand Customers

Customer Support Centre Tel No: (09)2720178
Sales Department: Panasonic New Zealand Limited
350 Te Irirangi Drive, East Tamaki,
Private Bag 14911 Panmure,
Auckland New Zealand

5 Special Features

5-A Handset Locator

You can locate the handset or page the handset user with beep tones.

- 1 Press **[HANDSET LOCATOR]** on the base unit.
 - The IN USE/CHARGE indicator flashes and the handset beeps for 1 minute.
- 2 To stop paging, press **[HANDSET LOCATOR]** again or press **[TALK]** twice on the handset.

5-B Using the PAUSE Button (For PBX Line/Long Distance Calls)

We recommend you press **[PAUSE]** if a pause is required for dialling with a PBX or to make a long distance call.

Ex: Line access number **[9]** (PBX)

[9] ➡ [PAUSE] ➡ Phone number

- Pressing **[PAUSE]** once creates a 3.5 second pause. This prevents misdialling when you redial or dial a stored number.
- Pressing **[PAUSE]** more than once increases the length of the pause between numbers.

5-C RECALL Button

Pressing **[RECALL]** allows you to use special features of your host PBX such as transferring an extension call or accessing optional telephone services, such as call waiting.

Selecting the recall time

The recall time depends on your telephone exchange or host PBX. You can select the following recall times: "90, 100, 110, 250, 300, 400, 600 or 700 msec (milliseconds)". KX-TC2100AL preset is "100 msec" and KX-TC2100NZ is set to "600 msec".

The TALK indicator light must be off before programming.

Press **[PROGRAM] ➡** Dialling button ([1] to [8]) ➡

➡ **[AUTO] ➡ [RECALL].**

[1]: 90 msec	[2]: 100 msec	[3]: 110 msec
[4]: 250 msec	[5]: 300 msec	[6]: 400 msec
[7]: 600 msec	[8]: 700 msec	

- A beep sounds.
- If 3 beeps sound after programming, a wrong key was pressed. Start again from the beginning.
- Users in Australia can access Telstra's "EASY CALL" service by having the recall time set at 100 msec (this is the factory default setting), and then follow Telstra's "EASY CALL" instructions to operate this service.
- If the unit is connected via a PBX, PBX functions (transferring a call etc.) might not work correctly. Consult your PBX supplier for the correct setting.
- When you receive a second call during a conversation, you will hear a signal tone following the call waiting tone and the conversation will be interrupted for approximately a second. The tones are generated from the telephone company. This is not a fault of the product as these events are normal.

For Call Waiting Service Users in New Zealand

- Make sure the recall time is set to 600 msec for use with Telecom's Call Waiting Service. Press **[RECALL]** if you hear a call-waiting tone while talking.
- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[RECALL]** again.